

Figure 1: A block diagram of one preferred system architecture

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Figure 2: A flow chart of a preferred business process

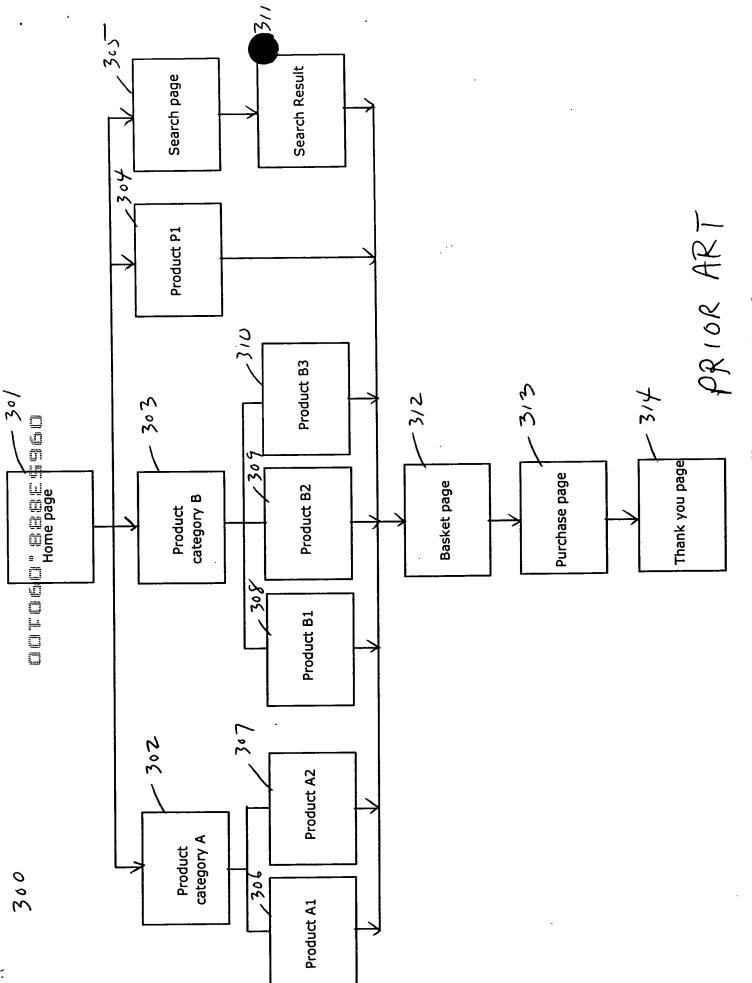


Figure 3: An example of an online store structure

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400	and a				18 4 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	10t son	707	2003	agayor/	Lot of Septiment to 5
	Timestamp	Session ID	Referrer	Current Page	Links
	T1	S1	R1	Home	A, B, P1, Search
	T2	25	R2	Home	A, B, P1, Search
	Т3	S1	Home	А	A1, A2
	T4	S3	R3	Home	A, B, P1, Search
	T5	25	Home	Search	
	T6	S1	А	A1	Basket, A
	177	S 3	Home	P1	Basket
	T8	51	A1	Basket	Purchase, Home
	Т9	25	Search	Search Result	A2, B1, B2
	T10	S1	Basket	Home	A, B, P1, Search
	T11	25	Search Result	B1	Basket, B
	T12	S1	Home	В	B1, B2, B3
	T13	S1	В	B2	Basket, B
	T14	S1	B2	В	B1, B2, B3
	T15	25	81	Basket	Purchase, Home
	T16	S1 ·	В	B3	Basket, B
	T17	25	Basket	Purchase	Thank You
	T18	S 3	P1	Home	A, B, P1, Search
	T19	S1	B3	Basket	Purchase, Home
	T20	S1	Basket	Purchase	Thank You
	T21	S1	Purchase	Thank You	Home
	T22	S 3	Home	А	A1, A2
	T23	25	Purchase	Thank You	Home

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500	Links	A, B, P1, Search	A1, A2	Basket, A	Purchase, Home	A, B, P1, Search	B1, B2, B3	Basket, B	81, 82, 83	Basket, B	Purchase, Home	Thank You	Home
201	Current Page		А	A1	Basket	Home	В	B2	В	B3	Basket	Purchase	Thank You
206	Referrer		Home	A	A1	Basket	Home	В	B2	В	B3	Basket	Purchase
505	Session ID	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1
207	Timestamp	T1	T3	Т6	Т8	T10	T12	T13	T14	T16	T19	T20	T21

(a) Session S1 -50/

Timestamp	Session ID Referrer	Referrer	Current Page	Links
T2	S2	R2	Home	A, B, P1, Search
T5	S2	Home	Search	
T9	S2	Search	Search Result	A2, B1, B2
T11	S2	Search Result	B1	Basket, B
T15	S2	B1	Basket	Purchase, Home
T17	S2	Basket	Purchase	Thank You
T23	25	Purchase	Thank You	Home

502 (b) Session S2

Timestamp	Session ID Referrer	Referrer	Current Page	Links
T4	S3	R3	Home	A, B, P1, Search
17	S3	Home	P1	Basket
T18	53.	P1	Home	A, B, P1, Search
T22	S3	Home	А	A1, A2

(c) Session S3 -593

Figure 5: An example of sessions in an online store

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Product	Clickthroughs "	Ciickthroughs "Basket sigh on	Purchase
impressions		placement	
T1, P1	T6, A1	T8, A1	T20, A1
T3, A1	T13, B2	T19, B3	T20, B3
T3, A2	T16, B3		
T10, P1			
T12, B1			
T12, B2			
T12, B3			
T14, B1			
T14, B2			
T14, B3			

(a) Micro-conversions of session S1 $- 6 \circ /$

Product impressions	Clickthroughs	Basket placement	Purchase
T2, P1	T11, B1	T15, B1	T17, B1
T9, A2			
T9, B1			
T9, B2			

(b) Micro-conversions of session S2 -65

Product impressions	Clickthroughs	Basket placement	Purchase
T4, P1	T7, P1		
T18, P1			
T22, A1			
T22, A2			

(c) Micro-conversions of session S3 -603

Figure 6: An example of micro-conversions in an online store

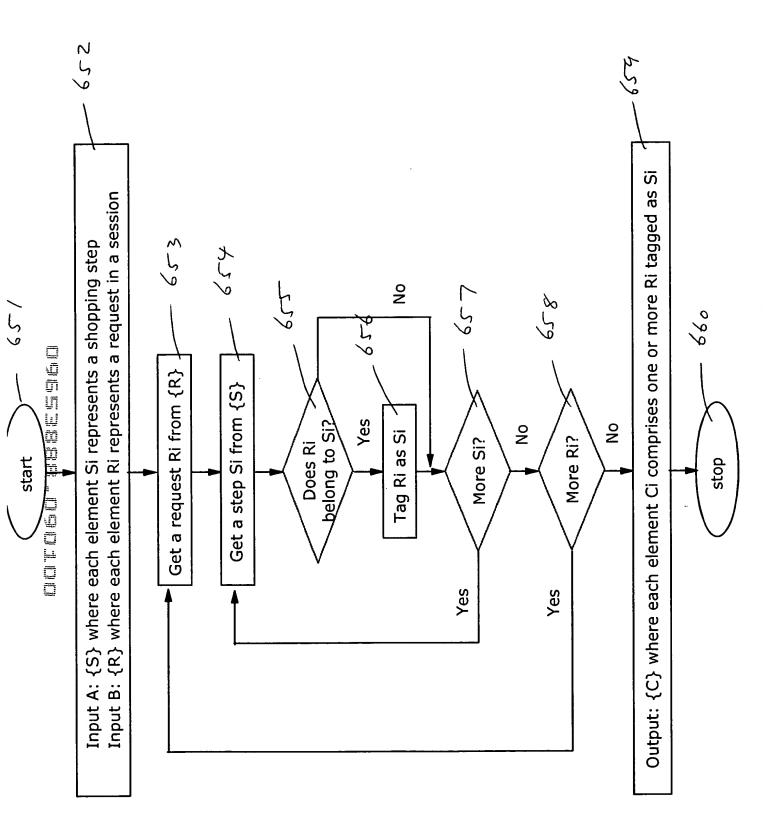


Figure 6A: A flow chart of a shopping step finder process

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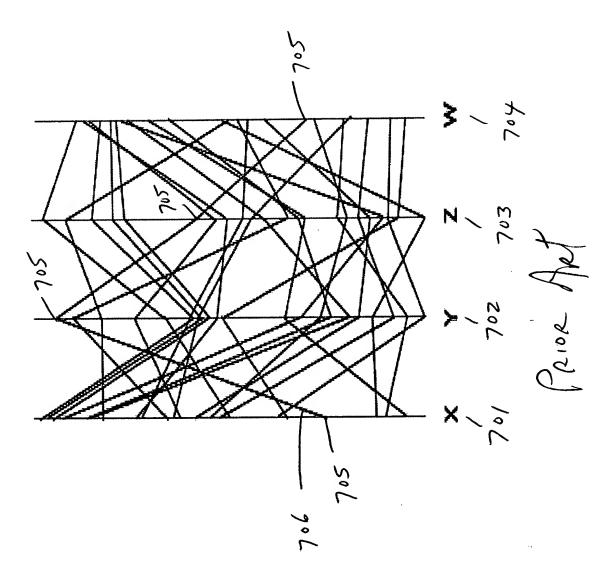


Figure 7: An example of a traditional parallel coordinate system

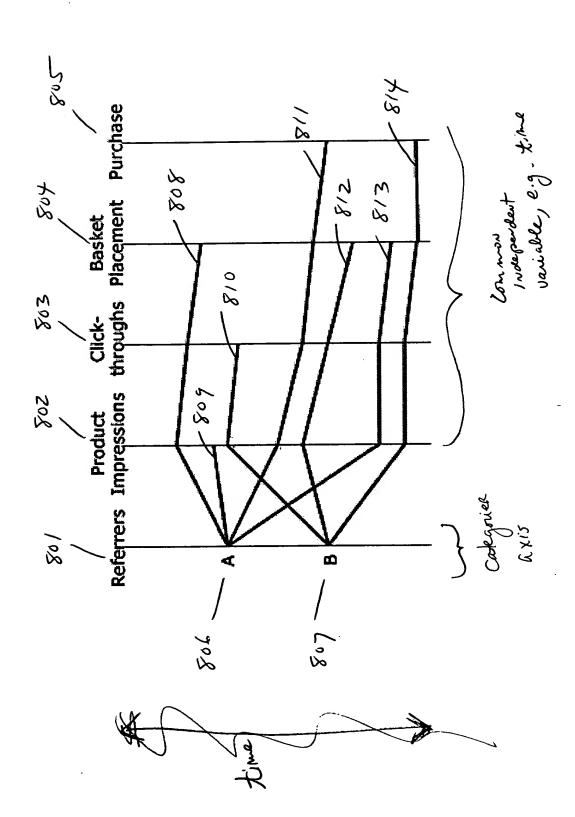


Figure 8: An example of a micro-conversion visualization with a parallel coordinate system

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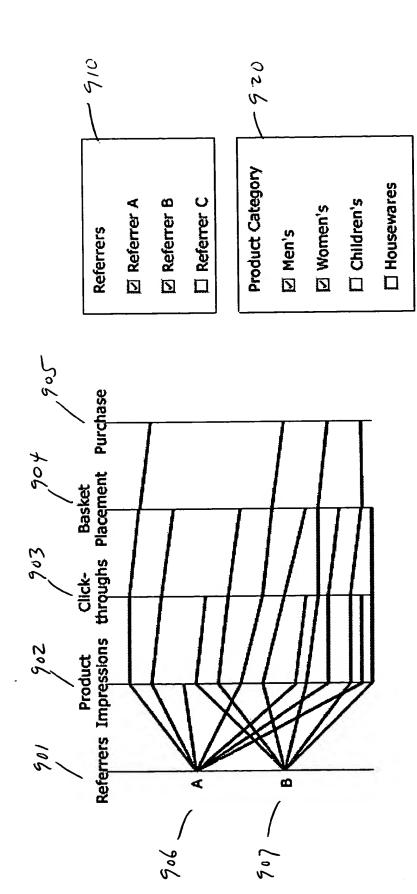


Figure 9: An example of a micro-conversion visualization with filters

9001	Links	A, B, P1, Search	Basket	A, B, P1, Search	A1, A2	B, C, D, Search		C2, C3, D1	Basket, C	C2, C3, D1	Basket, C	A, B, C, D, Search		A1, B1, C3, D2	Basket, D	Purchase, Home	A, B, C, D, Search	D1, D2, D3	Basket, D	Purchase, Home	Thank You	Home
1005	Current Page	Home	P1	Home	A	Home	Search	Search Results	C2	Search Results	C3	Home	Search	Search Results	D2	Basket	Home	Q	D3	Basket	Purchase	Thank You
1003 1004	Referrer	R3	Home	P1	Home	ST1	Home	Search	Search Results	72	Search Results	ST2	Home	Search	Search Results	D2	Basket	Home	D	D3	Basket	Purchase
0/ 200/	Store	ST1	ST1	ST1	ST1	ST2	ST2	ST2	ST2	ST2	ST2	ST3	ST3	ST3	ST3	ST3	ST3	ST3	ST3	ST3	ST3	ST3
0)	Session ID	S3	S3	S3	S3	S3	53	S3	S3	53	. 23	53	S3	S3	S3	S3	S3	S3	S3	S3	S3	53
1001	Timestamp	Т4	177	T18	T22	T23	T24	T25	T26	T27	728	T29	T30	T31	T32	T33	T34	T35	T36	T37	T38	T39

Figure 10: An example of a session browsing more than one online stores

	2011	Purchasé	T38, D2, ST3	T38, D3, ST3				-											
المالات عظظظ الموال	1103	Basket placement	T33, D2, ST3	T37, D3, ST3															
. CETATA	2011	Clickthroughs	T7, P1, ST1	T26, C2, ST2	T28, C3, ST2	T32, D2, ST3	T36, D3, ST3												
	1011	Product impressions	T4, P1, ST1	T18, P1, ST1	T22, A1, ST1	T22, A2, ST1	T25, C1, ST2	T25, C3, ST2	T25, D1, ST2	T27, C2, ST2	T27, C3, ST2	T27, D1, ST2	T31, A1, ST3	T31, B1, ST3	T31, C3, ST3	T31, D2, ST3	T35, D1, ST3	T35, D2, ST3	T35, D3, ST3

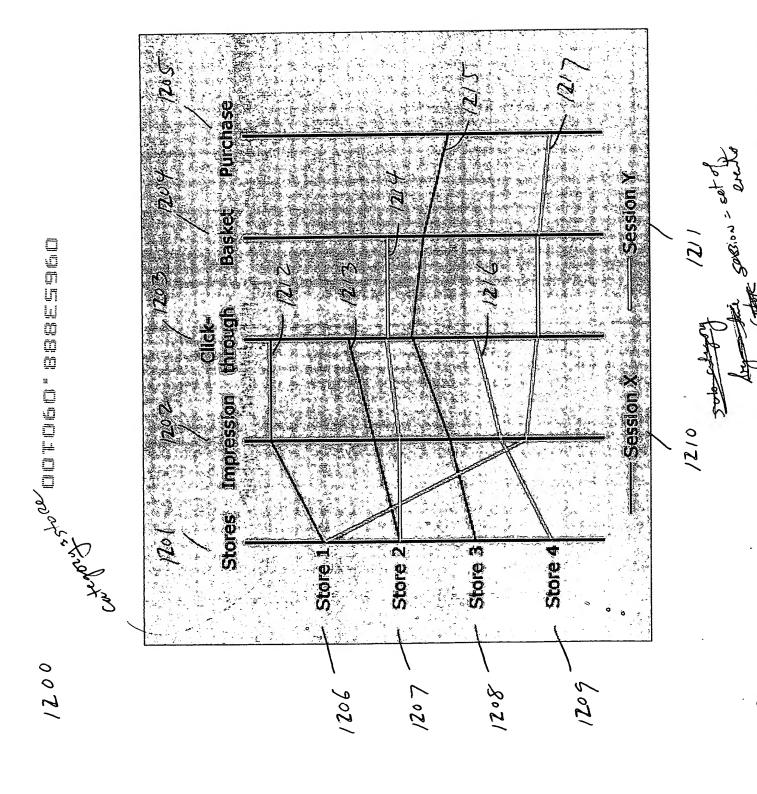


Figure 12: An example of visualizing shopping activities in more than one online stores